

1000

	5	9	12	15	19	25	28	32	37	44	54	58	63	65	67	69	73	77	80					
Cow	: SQAEFDKAAEEV	KHK	TKK	---	P	--	ADDEEM	FIY	SHY	KOATVGDIN	-	TERPG	MIDF	KGKAKW	DAMN	NELKCT	SKED	AMKAY	VDKVEEL	KKKYG <sup>66</sup>				
Man	: SQAEFEKAAEEV	RH	KTK	---	P	--	SDEEM	FIY	GHY	KOATVGDIN	-	TERPG	MIDF	TGKAKW	DAMN	NELKCT	SKED	AMKAY	INKVEEL	KKKYG <sup>67</sup>				
Pig	: SQAEFEKAAEEV	KN	KTK	---	P	--	ADDEEM	FIY	SHY	KOATVGDIN	-	TERPG	EDF	KGKAKW	DAMN	NGLKCT	SKED	AMKAY	INKVEEL	KKKYG <sup>68</sup>				
Dog	: SQAEFDKAAED	VKH	KTK	---	P	--	ADDEEM	FIY	SHY	KOATVGDIN	-	TERPG	LID	IRGKAKW	DAMN	NOLKCT	SKED	AMKAY	VNKVED	KKKYG <sup>66</sup>				
Rat	: SQADFKAEEV	KR	KTK	---	P	--	TDEEM	FIY	SHY	KOATVGDVN	-	TDRPG	MIDF	KGKAKW	DS	SNKLKCT	SKEN	AMKT	YVEKVEEL	KKKYG <sup>66</sup>				
Mouse	: SQAEFDKAAEEV	KR	KTK	---	P	--	TDEEM	FIY	SHY	KOATVGDVN	-	TDRPG	LID	IRGKAKW	DS	SNKLKCT	SKEN	AMKT	YVEKVEEL	KKKYG <sup>66</sup>				
Turtle	: SQAEFDKAAEEV	KQ	KSQ	---	P	--	TDEEM	FIY	SHY	KOATVGDIN	-	TERPG	EDF	KGKAKW	DAMN	NGLKCT	SKES	AMKT	YVEKVEEL	KKKYG <sup>67</sup>				
Duck	: AEAFFKAAEEV	KQ	KSQ	---	P	--	SDQEM	LDY	SHY	KOATVGDVN	-	TDRPG	MIDF	KGKAKW	DAMN	NALKCM	SKED	AMKAY	VAKVEEL	KGKYG <sup>66</sup>				
Chicken	: SEAAEFKAAEEV	KH	KSQ	---	P	--	TDQEM	LDY	SHY	KOATVGDVN	-	TDRPG	MIDF	KGKAKW	DAMN	NALKCM	SKED	AMKAY	VAKVEEL	KGKYG <sup>66</sup>				
Fruitfly	: VSEQENAAAEV	KSL	TKR	---	P	--	SDDEF	LOI	YALF	KOASVGDND	-	TAKPG	LID	IRGKAKW	EAMN	NKQCK	SKSE	AAQOEY	ITFVEGL	VAKYA <sup>66</sup>				
Hawkmoth	: LQEQFDQAASV	RN	KSL	---	P	--	SDNDL	IEL	YALF	KOASVGDND	-	TAKPG	LID	IRGKAKW	EAMN	NKQCK	SKSE	AAQOEY	ITFVEGL	VAKYA <sup>66</sup>				
Yeast (1)	: VSQIEEKAANE	PTK	---	P	--	STDEL	IEL	YALF	KOATVGDND	-	KEKPG	FN	KDRY	KWEAM	NL	KCK	SKQED	AEKE	YAL	DOL	IAKYSS <sup>87</sup>			
Yeast (2)	: VSQIEEKAANE	PTK	---	P	--	STDEL	IEL	YALF	KOATVGDND	-	KEKPG	FN	KDRY	KWEAM	NL	KCK	SKQED	AEKE	YAL	DOL	IAKYSS <sup>87</sup>			
C. elegans (1)	: MTLSEFDDAA	AT	VKT	KTS	---	P	--	SNDEL	LK	YALF	KOATVGDND	-	KEKPG	FN	KDRY	KWEAM	NL	KCK	SKQED	AEKE	YAL	DOL	IAKYSS <sup>87</sup>	
Cotton	: LKEEFEHAEK	VKT	PAA	---	P	--	SNDDM	L	YGLY	KOATVGPVN	-	TSRPG	FN	REKY	KWDAM	KAVE	CKSKEE	AMGDY	ITRKV	QOL	FEAAGS <sup>89</sup>			
Rape seed	: LKEDFEHAEK	VKT	PAS	---	P	--	SNEDL	L	YGLY	KOATVGPVT	-	TSRPG	FN	REKY	KWDAM	KAVE	CKSKEE	AMGDY	ITRKV	QOL	FEAAGS <sup>89</sup>			
Arabidopsis	: LKEEFEHAEK	VNT	TEL	---	P	--	SNEDL	L	YGLY	KOAKFEPVD	-	TSRPG	FN	REKY	KWDAM	KAVE	CKSKEE	AMGDY	ITRKV	QOL	FEAAGS <sup>89</sup>			
Castor bean	: LKEDFEHAEK	AKT	PEN	---	T	--	TNENK	L	YGLY	KOATVGPVN	-	TSRPG	FN	REKY	KWDAM	KAVE	CKSKEE	AMGDY	ITRKV	QOL	FEAAGS <sup>89</sup>			
Lily	: LKEEFEHAEK	AKT	PES	---	T	--	SNENK	L	YGLY	KOSTVGPVD	-	TDRPG	FN	REKY	KWDAM	KAVE	CKSKEE	AMGDY	ITRKV	QOL	FEAAGS <sup>89</sup>			
Frog (brain)	: PQADFKAAGD	VKT	KTK	---	P	--	TDDEL	KE	YGLY	KOSTVGDIN	-	IEPG	MIDF	KGKAKW	DAMN	NL	KCK	SKED	AMSA	VY	SKAHE	IEKYGL <sup>68</sup>		
Duck (brain)	: HOADFKAEEV	KK	KTR	---	P	--	TDEEL	KE	YGLY	KOATVGDIN	-	IEPG	MIDF	KGKAKW	DAMN	NL	KCK	SKED	AMSA	VY	SKAHE	IEKYGL <sup>68</sup>		
Cow (testis)	: QVFEFEMA	AAIKQ	KG	---	P	--	VSDQEK	L	YSY	KOATQGDIN	-	IPAP	PD	TV	KAKAKW	EAMN	VEKCM	SKMD	AMRI	V	PAKVEEL	KNEAG <sup>87</sup>		
Rat (testis)	: SQVEFEMA	ASLQ	KG	---	P	--	LSQDEK	M	YSY	KOATQGDIN	-	IPVP	PD	TV	KAKAKW	EAMN	MV	NKCM	SKMD	AMRI	V	PAKVEEL	KNEAG <sup>87</sup>	
Mouse (testis)	: SQVEFEMA	ASLQ	KG	---	P	--	VSDQEK	L	YSY	KOATQGDIN	-	IPVP	PD	TV	KAKAKW	EAMN	MV	NKCM	SKMD	AMRI	V	PAKVEEL	KNEAG <sup>87</sup>	
C. elegans (2)	: AQADFKAQKNLKT	KKE	---	P	--	DNDVK	LOI	YGLY	KOATAGDVQ	-	GKREG	MIDF	VGR	KYDAM	NL	KCTQ	QDE	ARAN	YAKL	VGGL	ISEE	385		
C. elegans (3)	: LQEKDAAVEI	IQK	PKTG	---	P	--	PVATSN	DQKLT	YSL	KOASIGDVN	-	TDRPG	TS	IERK	KWDS	SM	KE	LEGV	QDE	AKER	Y	TKALNDMPDKIAE <sup>125</sup>		
C. elegans (4)	: LDEQFRAAVI	INAL	PKNG	---	P	--	PIKTS	INDQ	LOM	YSLY	KOATSELD	-	TIQFY	Q	TEORM	KW	NAN	NQ	LGNW	DEAE	AKAQ	YVEKMLK <sup>146</sup>		
Carp (m)	: SVEEFNAAKEK	LGA	KKD	---	P	--	GNEVK	L	KUYAL	KOATQGDIN	-	TPKES	ME	ED	VNKA	KWDAM	KSLGS	VSQ	EEAR	QOY	VDL	SSV	VGTEA <sup>356</sup>	
Cow (m)	: HETREFAAVK	VIQ	PKNGSFQ	---	P	--	TNEMM	L	KY	SFY	KOATEGP	-	K	LSKPG	ED	PVGRY	KWDAM	SS	IGDM	ITKE	BEAM	IA	YVEEMKKILETWP <sup>533</sup>	
Arabidopsis (m)	: SAATAFVA	AAADR	LSQKV	---	P	--	SNELO	LOI	YGLY	KIATEGP	-	APQ	S	AL	K	Y	TARAK	QW	Q	K	L	Q	Y	PAWVE <sup>216</sup>

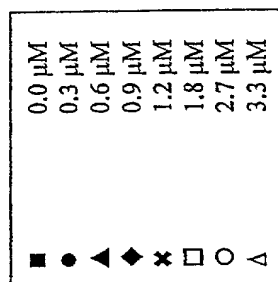
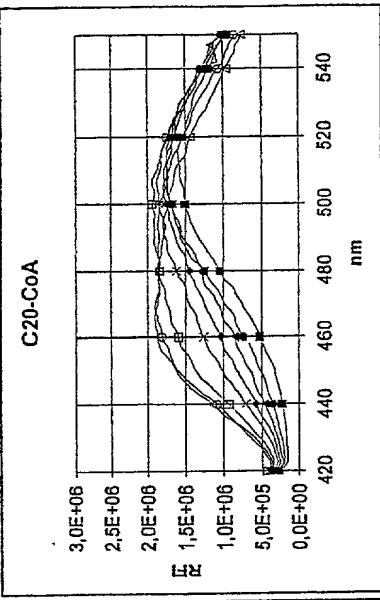
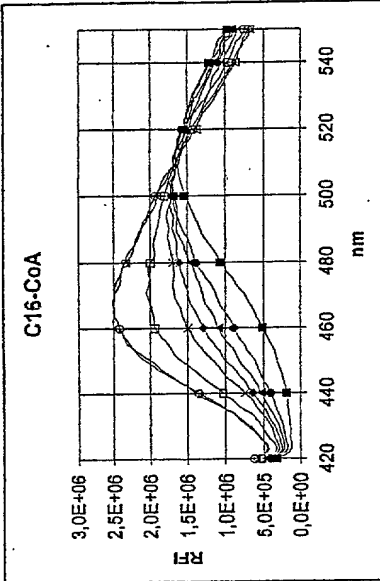
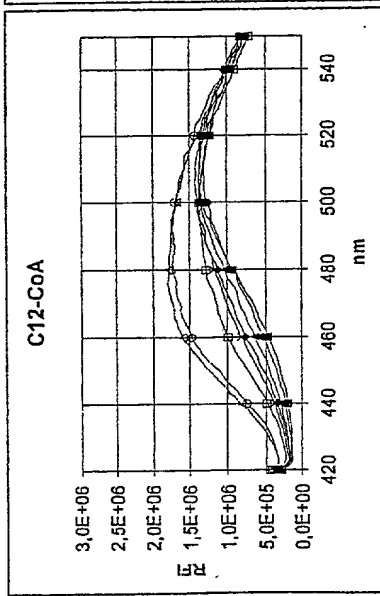
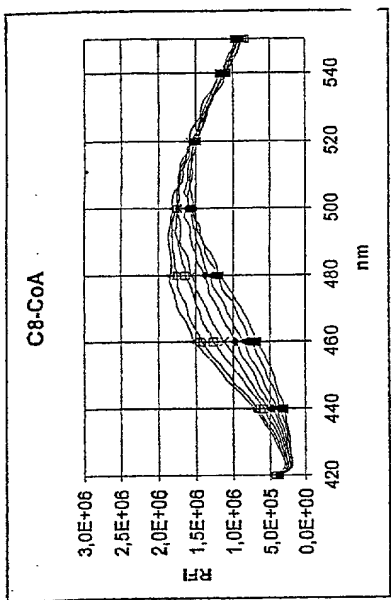
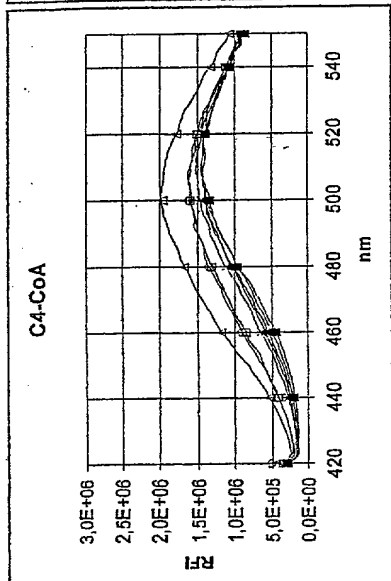
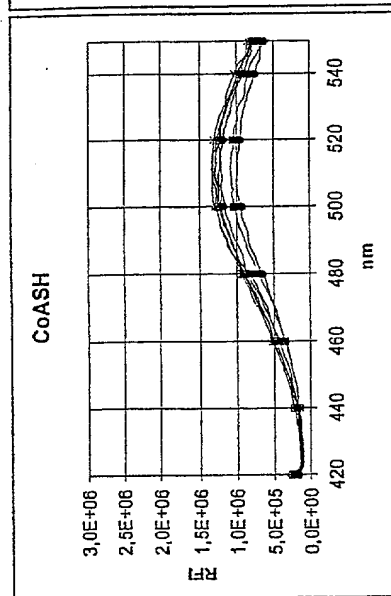


FIG. 3

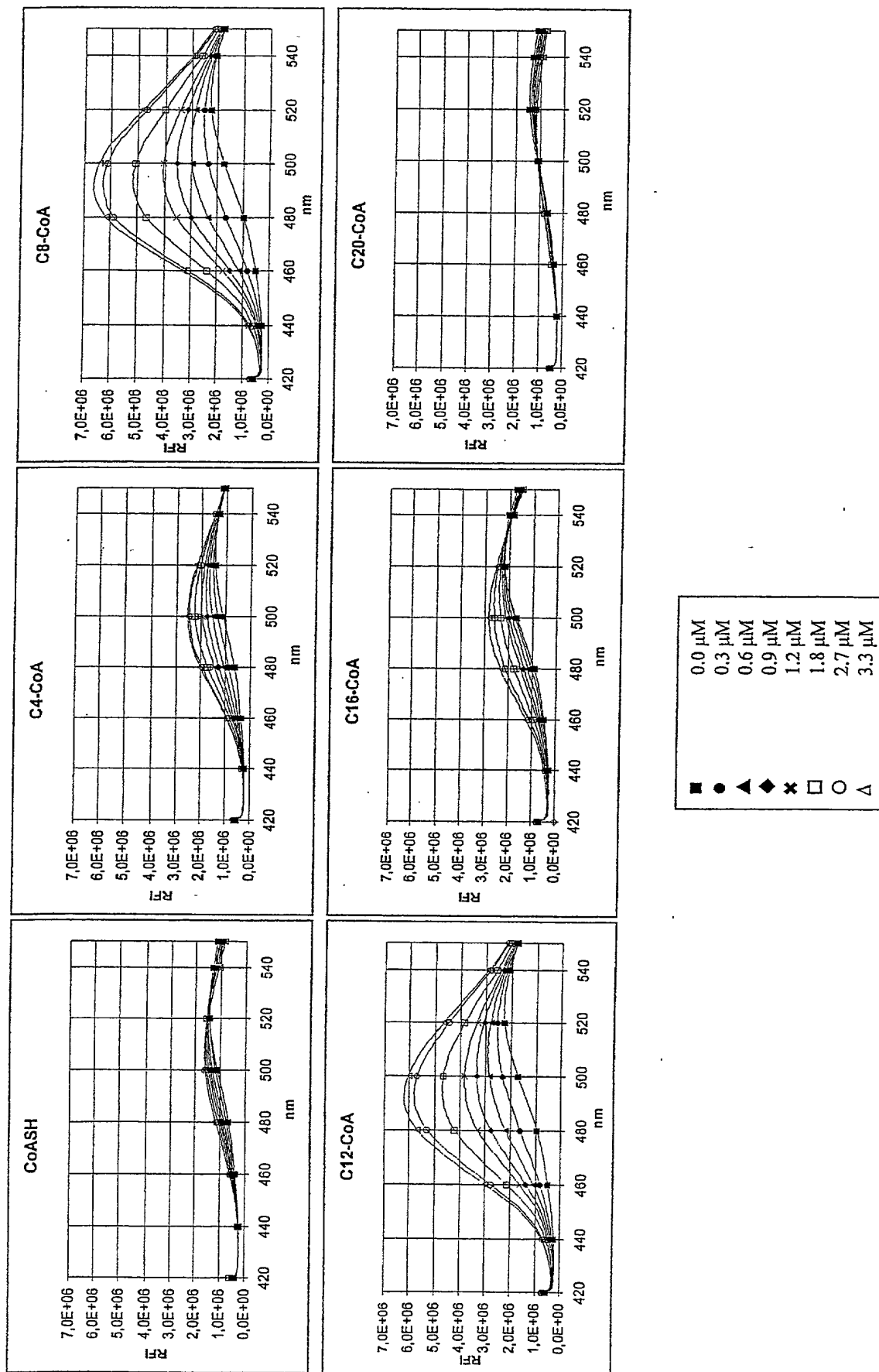
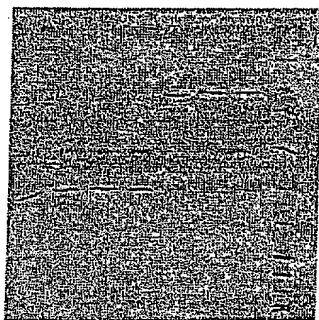


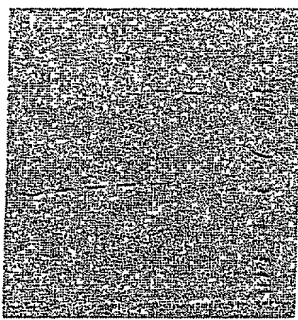
Figure 4:

(a): r-bov ACBP



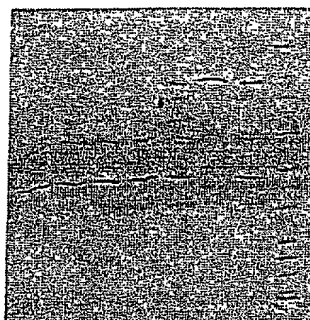
1 2 3 4 5 6 7 8

(b): A53C-badan



1 2 3 4 5 6 7 8

(c): M24C-badan



1 2 3 4 5 6 7 8

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200020-001/8860

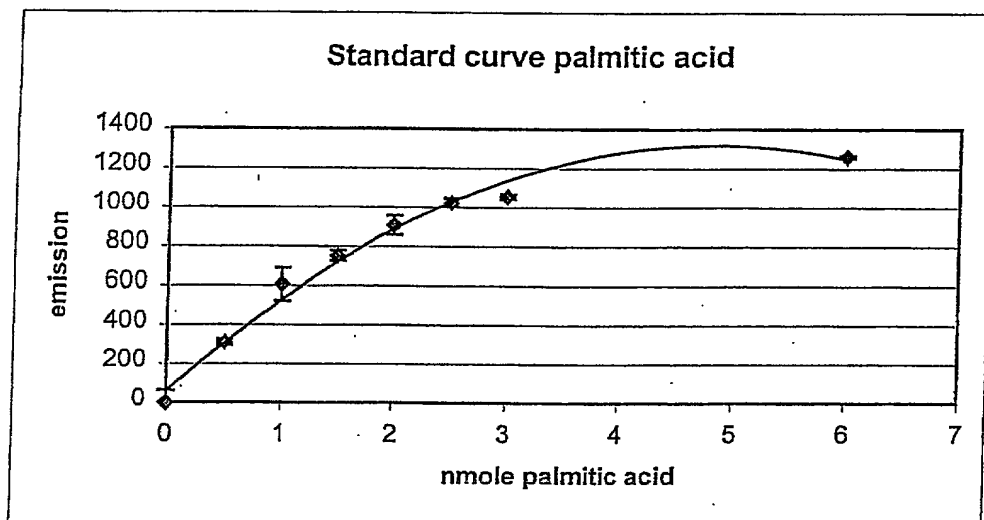


Fig. 5a.

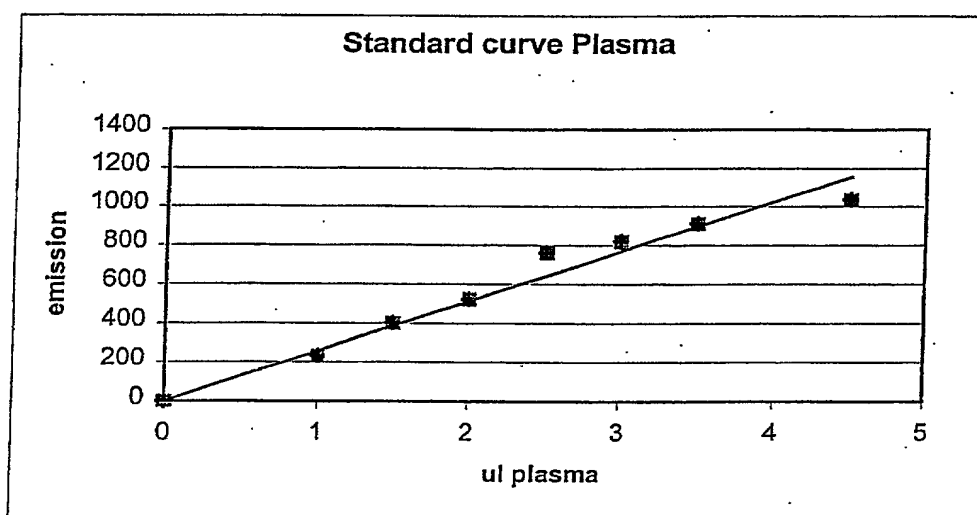


Fig. 5b.

Fig. 6

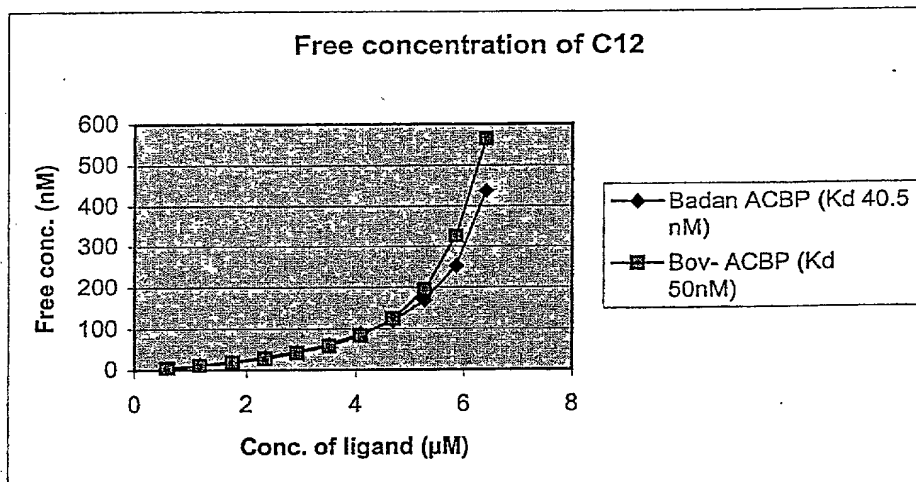
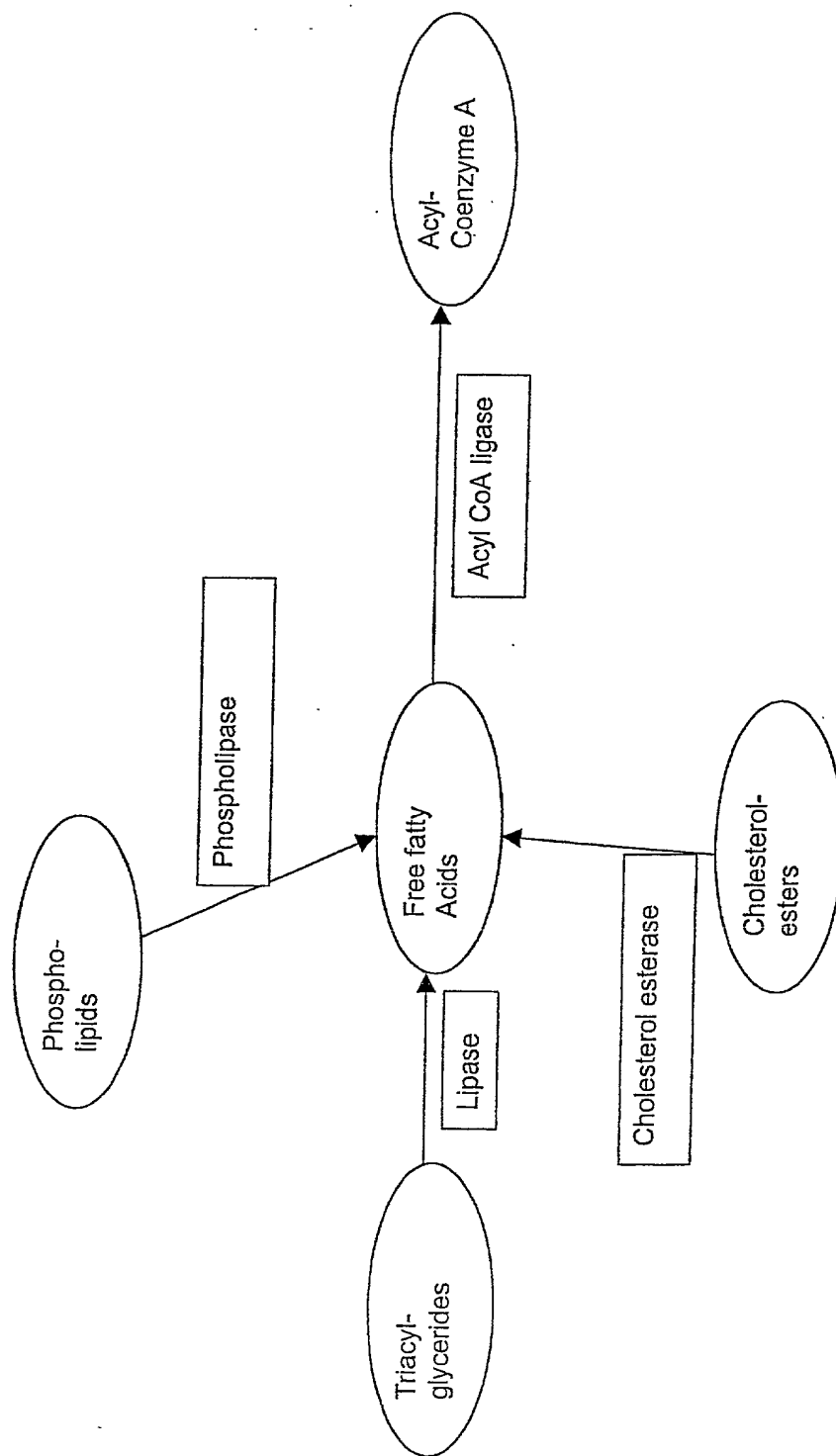


FIG. 7



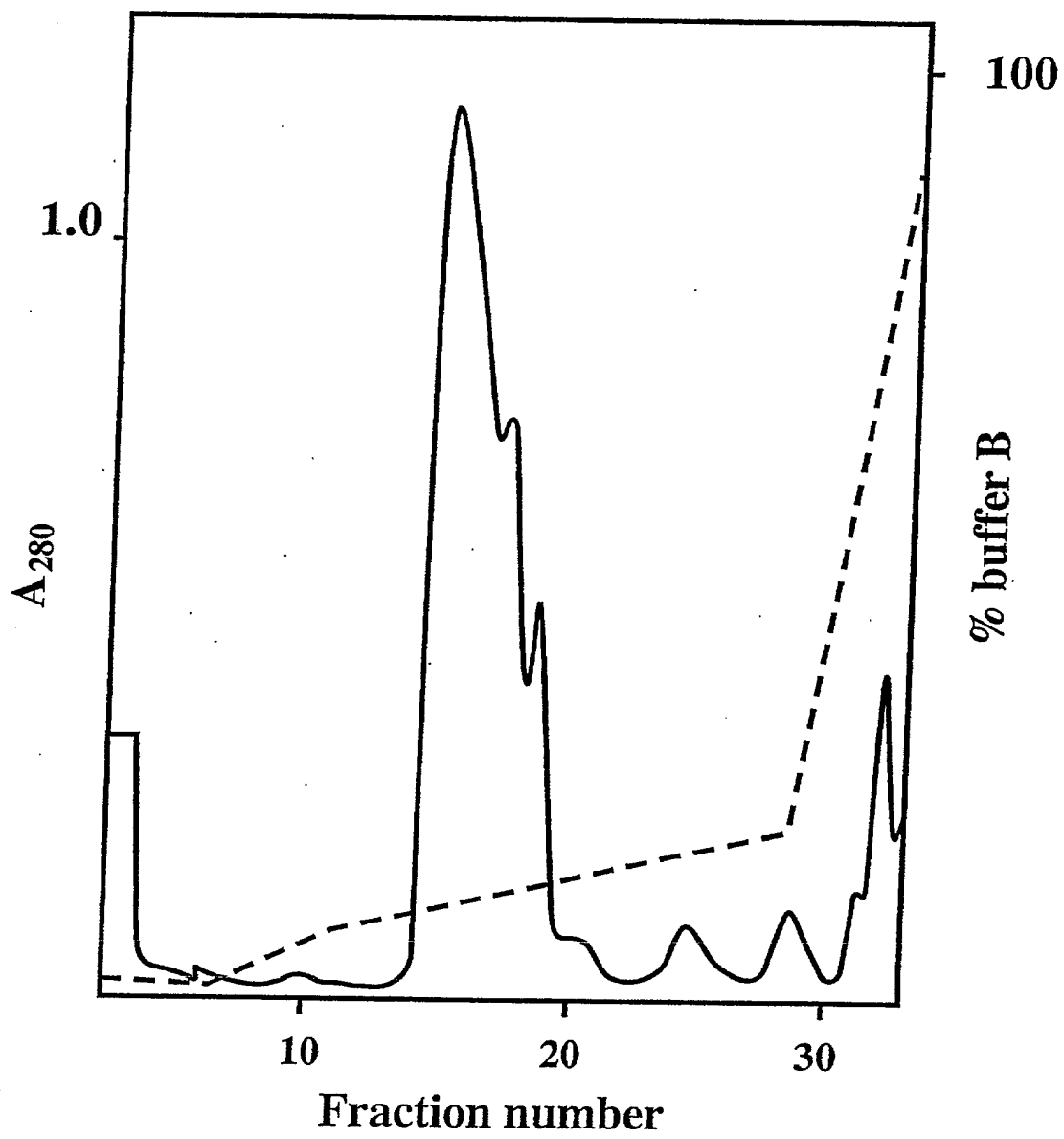


Fig. 8



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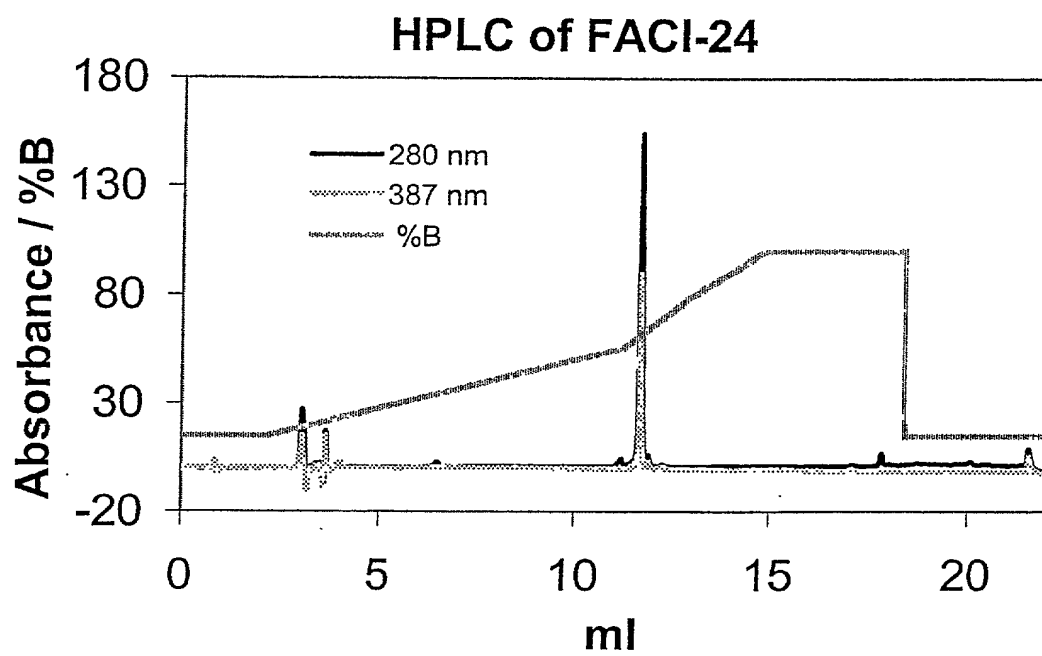


Fig. 9

FACI-24 in response to C16-CoA

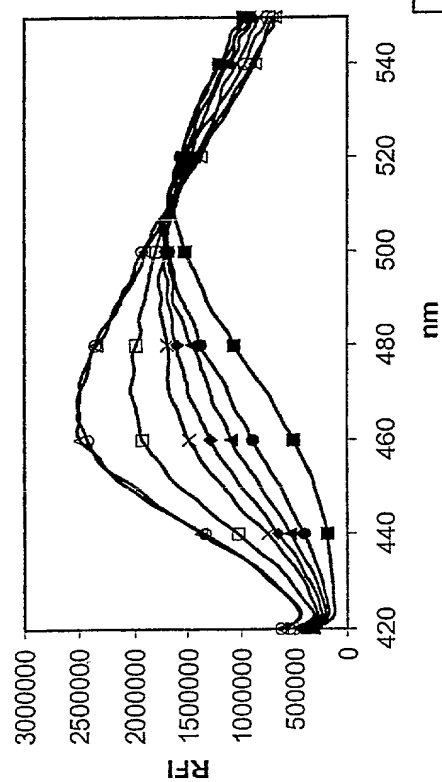


Fig 10 A

FACI-53 in response to C12-CoA

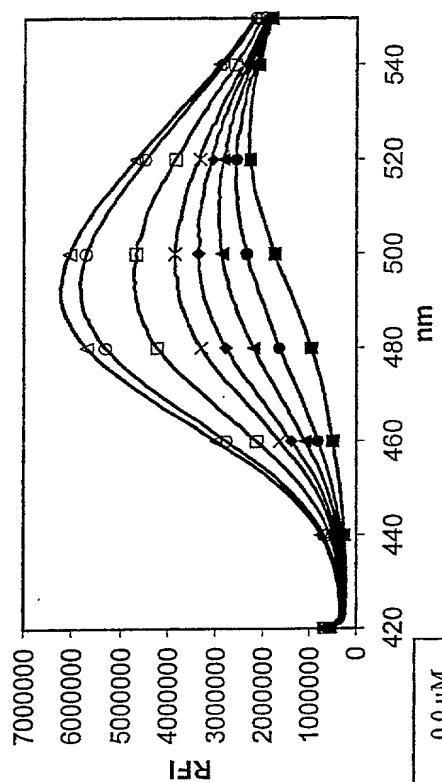
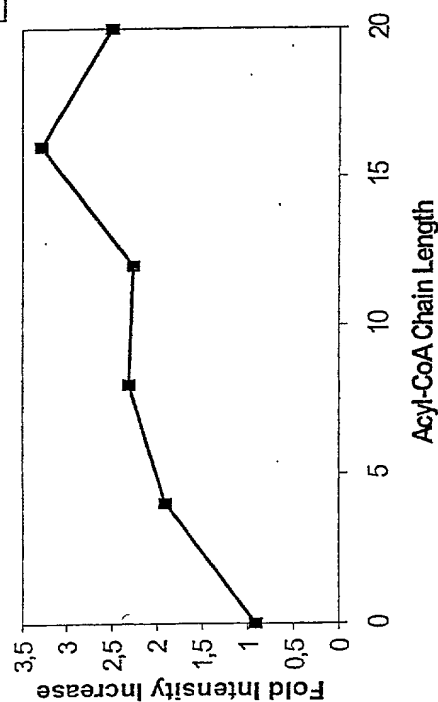


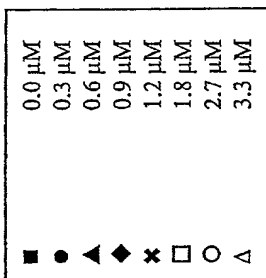
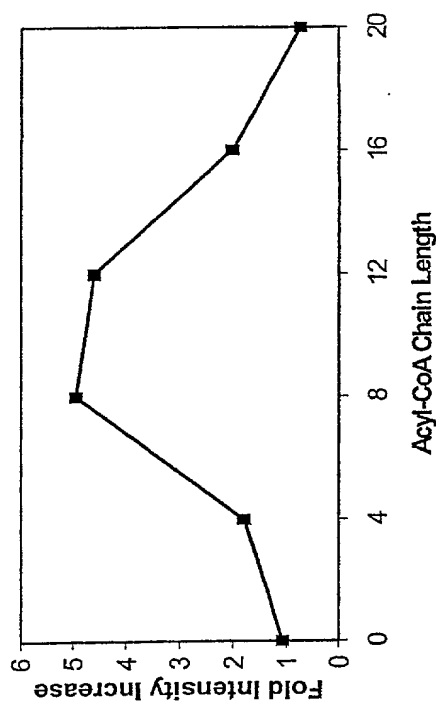
Fig. 10 B

Fig 10 C

M24C-badan response at 470 nm



A53C-badan response at 490 nm



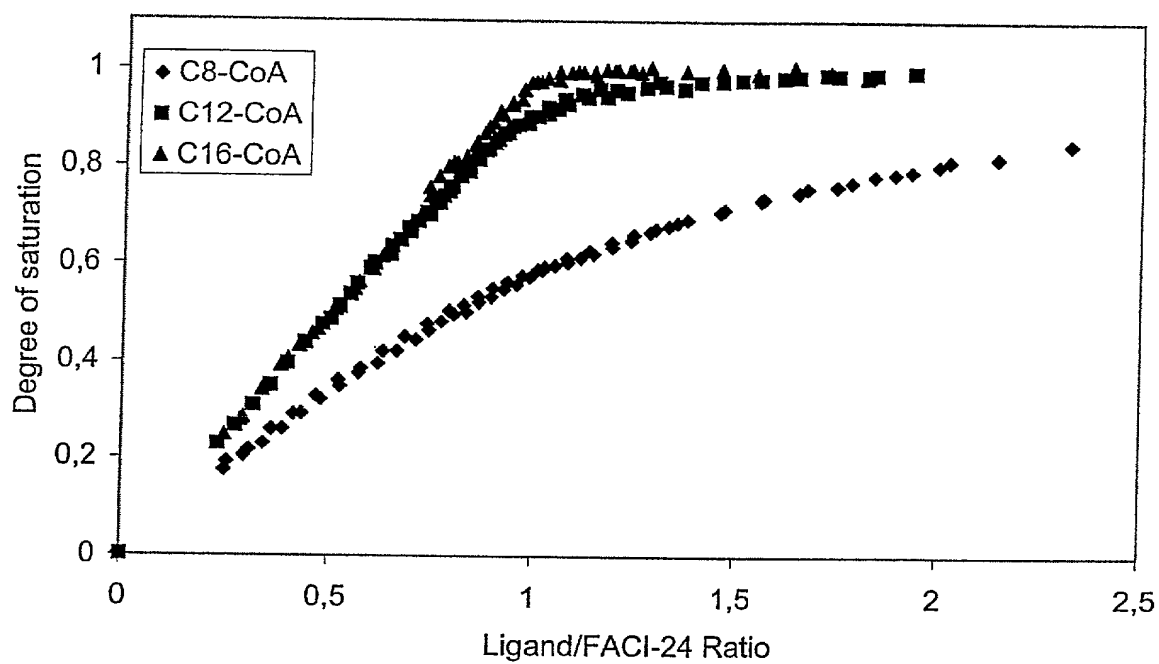


Fig. 11

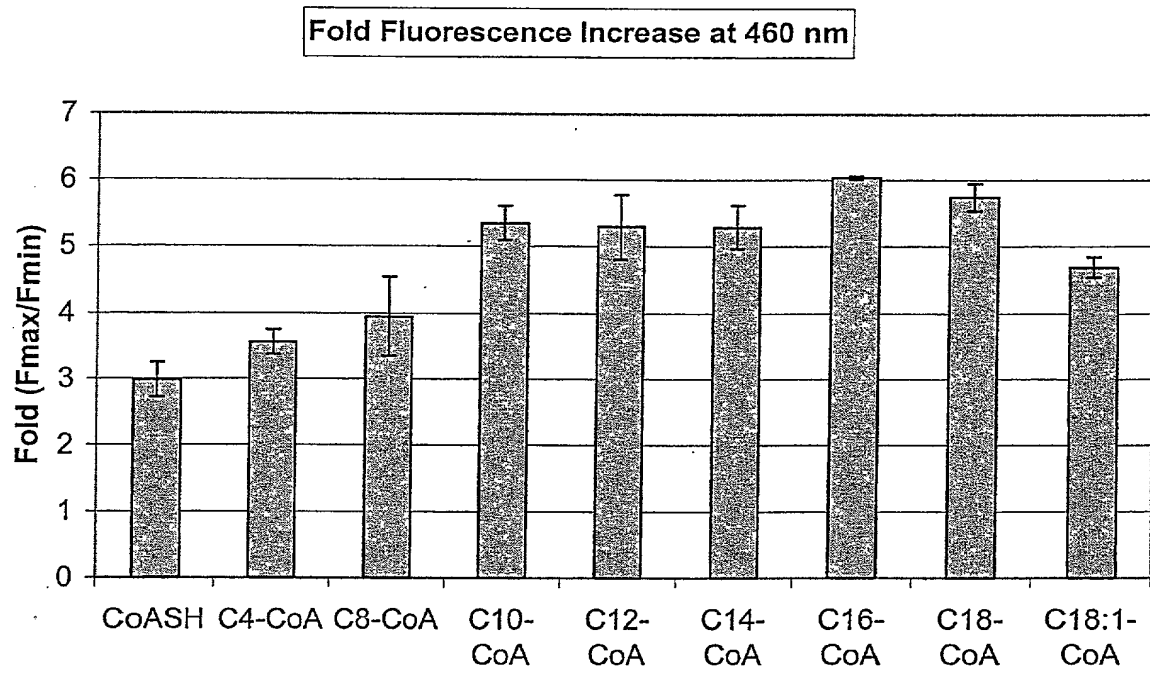


fig. 12

FA Time Scan

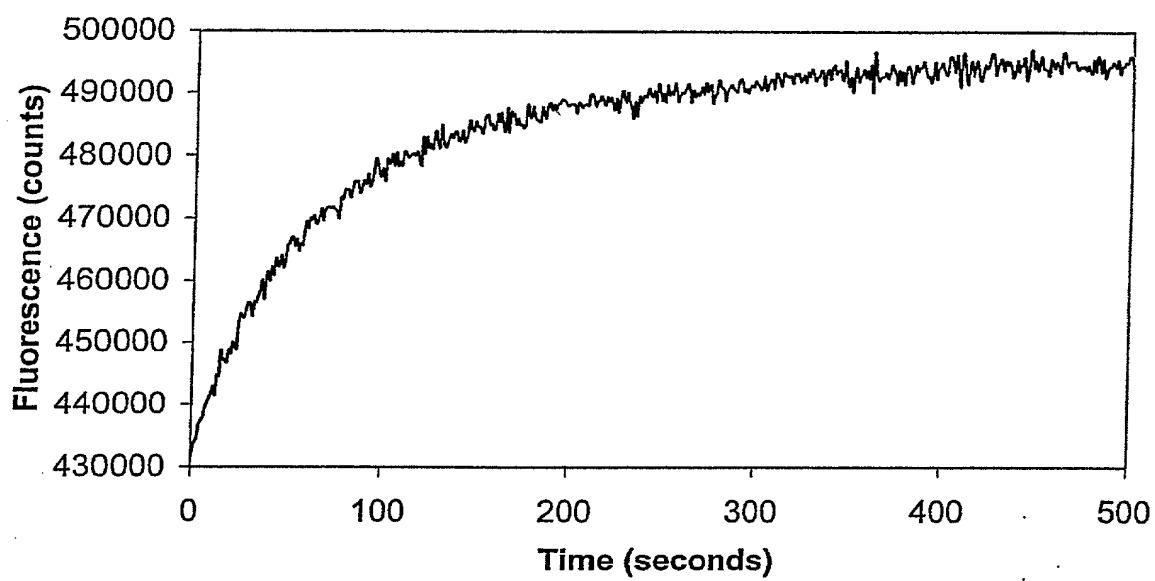


Fig. 13

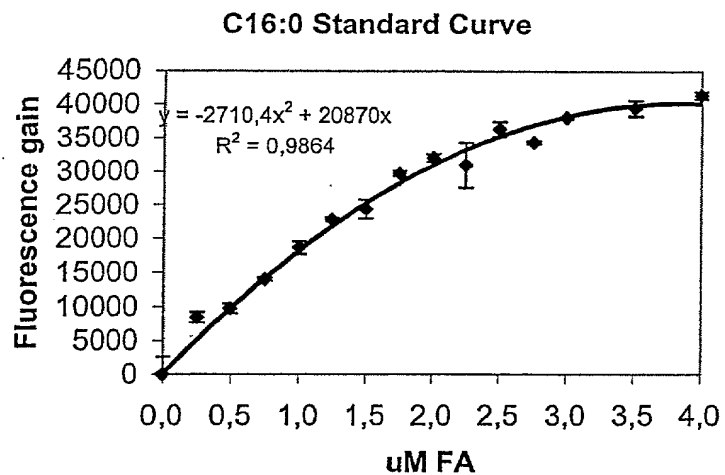


Fig. 14

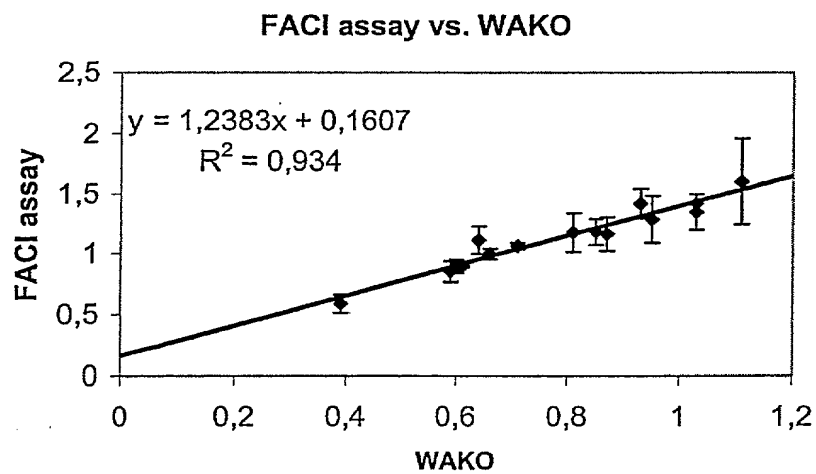


Fig. 15